

FEE TRANSMITTAL FOR FY 2005

·C/	E	ffective on	12/08/20	04. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).					
TOTAL AMOUNT OF PAYMENT (\$) _500.00									
Complete if Known:									
Application No. 10/052,699									
Filing Date 1/17/02									
		ventor	Panic	oni					
Art Unit		e	2613	<u>^</u>					
				3.P496					
Attorne	y DOCK	st 140	00390	<u>).F450</u>					
Applicant claims small entity status. See 37 CFR 1.27.									
METHO	D OF	DAVMEN	NT (cha	ck all that apply)					
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	<u>X</u>			tional fee(s) or underpayment of fee(s) during the pendency of this application.					
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	<u>X</u>		•	rpayments.					
	<u>X</u>			or future reply that requires a petition for extension of time should be treated as					
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				nay become public. Credit card information should not be included on this form.					
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1. BASIC FILING, SEARCH, AND EXAMINATION FEES									
Large Entity Small Entity									
Fee	Fee	Fee	Fee						
Code	(\$)	Code	(\$)	Fee Description Fees Paid (\$)					
1011	300	2011	150	Utility application filing fee					
1111	500	2111	250	Utility search fee1,000/500					
1311	200	2311	100	Utility examination fee					
4046		0015	465	5					
1012	200	2012	100	Design application filing fee					
1112	100	2112	50	Design search fee 430/215					
1312	130	2312	65	Design examination fee					
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1013	200	2013	100	Plant filing fee					
1113	300	2113	150	Plant search fee 660/330					
1313	160	2313	80	Plant examination fee					
1004	300	2004	150	Reissue filing fee					
1114	500	2114	250	Reissue search fee1,400/700					
1314	600	2314	300	Reissue examination fee					
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1005	202	2005	100	Bravisianal application filing to					
1005	200	2005	100	Provisional application filing fee					
AUSTATAL (4) A									
				SUBTOTAL (1) \$0					

2. EXCESS CLAIM FEES								
Independent Claims	ependent claims paid for, if greater than 3							
Code (\$) Code (\$ 1202 50 2202 5 1201 200 2201 10 1203 360 2203 18 1204 200 2204 10	0 0							
3. <u>APPLICATION SIZE FEE</u> If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
	Number of each add'I 50 or fraction thereof Solution thereof Solu							
Code (\$) Code (\$ 1081 250 2081 13 1082 250 2082 13	Fee Description: Application size fee for each additional group of 50 sheets beyond initial 100 sheets (count spec & drawings except sequences & program listings): Utility Design Plant							
	SUBTOTAL (3) \$0							

FEE CALCULATION (continued) 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) **Small Entity** Fee Fee Fee Fee Code (\$) Code (\$) **Fee Description** 130 Surcharge - late filing fee or oath 1051 2051 65 25 Surcharge - late provisional filing fee or cover sheet 1052 50 2052 130 1053 130 Non-English specification 1053 For filing a request for ex parte reexamination 1812 2,520 1812 2,520 8,800 Request for inter parties reexamination 1813 8,800 1813 Requesting publication of SIR prior to Examiner action 920* 1804 920* 1804 1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action 1251 120 2251 60 Extension for reply within first month 1252 450 2252 225 Extension for reply within second month Extension for reply within third month 1253 1.020 2253 510 795 Extension for reply within fourth month 1254 1.590 2254 1,080 Extension for reply within fifth month 1255 2,160 2255 250 1401 500 2401 **Notice of Appeal** 500.00 1402 250 Filing a brief in support of an appeal 500 2402 1,000 1403 2403 500 Request for oral hearing 1451 1,510 1451 1,510 Petition to institute a public use proceeding 1452 500 2452 250 Petition to revive - unavoidable 1453 1,500 2453 750 Petition to revive - unintentional 1501 1,400 2501 700 Utility issue fee (or reissue) Design issue fee 1502 800 2502 400 1503 1100 2503 550 Plant issue fee 1462 400 1462 400 Petitions to the Commissioner (CFR 1.17(f) Group I) 1463 200 1463 200 Petitions to the Commissioner (CFR 1.17(g) Group II) 1464 130 1464 130 Petitions to the Commissioner (CFR 1.17(h) Group III) 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) **Submission of Information Disclosure Stmt** 1806 180 1806 180 8021 40 8021 40 Recording each patent assignment per property (times number of properties) 1809 790 2809 395 For filing a submission after final rejection (see 37 CFR 1.129(a)) 1814 130 2814 65 **Statutory Disclaimer** 1810 790 2810 395 For each additional invention to be examined (see 37 CFR 1.129(b)) 1801 790 2801 395 Request for Continued Examination (RCE) 1802 900 1802 900 Request for expedited examination of a design application 300 1504 300 1504 Publication fee for early, voluntary, or normal pub. 1505 300 1505 300 Publication fee for republication 130 Request for voluntary publication or republication 1803 130 1803 1808 130 Processing fee under 37 CFR 1.17(i) (except provisionals) 1808 130 1,370 1454 Acceptance of unintentionally delayed claim for priority _ 1454 1,370 Other fee (specify) Other fee (specify) SUBTOTAL (4) \$ 500.00 *Reduced by Basic Filing Fee Paid SUBMITTED BY: Typed or Printed Name: Sheryl Sue Holloway Date: 567.13, 2005 Signature: Reg. Number: <u>37,850</u> **Telephone Number:** 408-720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450





Atty Docket No. 080398.P496

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re A	Application of:) Examiner:	Rao, Anand Shashikant
	Paniconi, et al.) Art Unit:	2613
Applic	eation No. 10/052,699)	
Filed:	January 17, 2002)	
For:	MOTION SEGMENTATION SYSTEM WITH MULTI FRAME HYPOTHESIS TRACKING)))	

Mail Stop Appeal Brief - Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

APPEAL BRIEF UNDER 37 C.F.R. § 41.37

This is an appeal to the Board of Patent Appeals and Interferences from the decision of the Examiner of Group 2613, dated April 13, 2005, in which claims 1-21 in the above-identified application were finally rejected. This Appeal Brief is hereby submitted pursuant to 37 C.F.R. § 41.37(a).

I. REAL PARTY IN INTEREST

The real party in interest are the join assignees of the full interest in the invention, Sony Corporation of Park Ridge, NJ, and Sony Electronics, Inc. of San Jose, CA

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II. RELATED APPEALS AND INTERFERENCES

To the best of Appellant's knowledge, there are no appeals or interferences related to the present appeal that will directly affect, be directly affected by, or have a bearing on the Board's decision in the instant appeal.

III. STATUS OF THE CLAIMS

Claims 1-21 are pending in the application and were rejected in a final Office Action mailed April 13, 2005. Claims 1-21 are the subject of this appeal. A copy of Claims 1-21 as they stand on appeal are set forth in Appendix A.

IV. STATUS OF AMENDMENTS

No amendments to the claims have been made after receipt of the Final Office Action.

V. SUMMARY OF CLAIMED SUBJECT MATTER

Appellant's invention as claimed in claims 1-21 identifies motion classes for regions within a frame of video and tracks the regions through the next frame based on a code vector associated with the class [Specification: ¶¶ 17-18 and Figures 1A-B]. However, a region may be improperly classified if it was partially occluded in the initial frame, which causes the encoded video to be decoded incorrectly. Therefore, Appellant performs an analysis on the regions to determine if a region is improperly, i.e., poorly, classified [¶¶29-33 and Figure 2]. Poorly classified regions are reclassified [§§37-41 and Figure 3]. In one embodiment, the reclassification is based on similarity measures using specifically defined equations.

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

I. <u>Claims 1-21 stand rejected under 35 U.S.C. § 102(e) over U.S. Patent</u> 6,643,387 to Sethuraman et al.

VII. ARGUMENTS

I. Claims 1-21 are Patentable under 35 U.S.C. § 102(e) over Sethuraman.

A. Claims 1-7 and 9-21

Claims 1-7 and 9-21 stand or fall together. Claim 1 is the representative claim.

Claim 1 claims the reclassification of a poorly classified region of video. Claim 1 further defines a poorly classified region to be a region classified as belonging to an improper class.

Sethuraman discloses identifying key objects in frames of video and classifying the motion information of the key objects into certain categories of actions, such as human, vehicular, or random actions. Sethuraman also discloses that objects too small to track are not labeled as key objects, and thus the motion information of such small objects is not classified.

The Examiner has interpreted the untrackable small objects in Sethuraman as being poorly classified in order to assert that Sethuraman anticipates Appellant's claim 1. However, Sethuraman contains no teaching or suggestion that Sethuraman deems the untrackable small objects are being improperly classified. Thus, Sethuraman does not support the Examiner's interpretation.

Furthermore, the Examiner asserts that Sethuraman discloses the reclassification of poorly classified regions as claimed by Appellant, citing column 9, lines 50-67 of Sethuraman as supporting his interpretation:

Given that two or more sub-regions belong to the same key object, their trajectories can be used to identify the action performed by that key object. Specifically, if further context on a key-object and its sub-regions is provided through manual means or through analysis of their shape, color, texture, and the like, then conditioned upon this knowledge, a contextual relationship between the sub-regions can be developed. Thus, by analyzing the sub-region motion trajectories, specific actions performed by the key object can be deduced. For example, if it turns out that the key object is a person (e.g., through skin-tone detection and shape) and the sub-regions correspond to the limbs of this person, then from the trajectory of the different joints in the limbs, specific motions such as run, walk, lift, etc. (see below for a detailed list of actions) can be identified. [Sethuraman:]

In fact, Sethuraman teaches that the motion of <u>only</u> key objects are classified into certain categories of actions. Thus, Sethuraman does not teach or suggest that the actions of an untrackable small object are reclassified as asserted by the Examiner. Therefore, Sethuraman cannot be properly interpreted as teaching or suggesting Appellant's claimed reclassification of poorly classified regions.

B. Claim 8

In claim 8, Appellant claims a particular equation used to reclassify a poorly classified region of video. Sethuraman does not teach or suggest the equation as claimed. Thus, Sethuraman cannot be properly interpreted as disclosing Appellant's claimed equation used to reclassify a region of video.

VIII. CONCLUSION

Because Sethuraman does not teach each and every limitation of Appellant's invention as claimed in claims 1-21, Sethuraman cannot be properly interpreted as anticipating Appellant's invention as claimed. Accordingly, Appellant respectfully requests the Board reverse the rejections of claims 1-21 under 35 U.S.C. § 102(e) and direct the Examiner to enter a Notice of Allowance for claims 1-21.

Fee for Filing a Brief in Support of Appeal

Enclosed is a check in the amount of \$500.00 to cover the fee for filing a brief in support of an appeal as required under 37 C.F.R. §§ 1.17(c) and 41.37(a).

Deposit Account Authorization

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then Appellant hereby requests such extension.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR

& ZAFMAN LLP

Dated: September 13, 2005

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Registration No. 37,850

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